

INVITATION TO BID		LSU	BID DUE DATE AND TIME	
BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL & MECHANICAL COLLEGE			11/29/2016 11:00 AM CT	
SOLICITATION RFQ-0000000108 SUPPLIER # SUPPLIER NAME AND ADDRESS <div style="border: 1px solid black; height: 80px; width: 350px; margin-top: 10px;"></div>			RETURN BID TO Louisiana State University and Agricultural and Mechanical College Procurement 213 Thomas Boyd Hall Baton Rouge, LA 70803 Buyer Jene Troxclair Ledet Buyer Phone +1 (225) 578-5510 Buyer Email jeneledet@lsu.edu Issue Date 11/04/2016	
TITLE: Trailer, firefighter skills training trailer				
<p style="text-align: center;">To Be Completed By Supplier</p> <ol style="list-style-type: none"> _____ "No Bid" (sign and return this page only). _____ My Company does not wish to receive future solicitations for this spend category. Specify your Delivery: To be made within _____ days after receipt of order. If applicable, Supplier's Addendum Acknowledgement/Response: As an authorized agent/signatory of the supplier, I/we acknowledge receipt of this Addendum, and _____ submit no alterations/clarifications to our original bid. _____ submit superseding revisions/clarifications to our original bid as written herein or attached hereto. <p style="text-align: center;">General Instructions to Suppliers</p> <ol style="list-style-type: none"> Sealed bids for furnishing the items and/or services specified are hereby solicited, and will be received by LSU Procurement at the "Return Bid To" address stated above, until the specified due date and time. Read the entire solicitation, including all terms, conditions and specifications. All bid information and prices must be typed or written in ink. Any corrections, erasures or other forms of alteration to unit price are to be initialed by the supplier. Bid prices are to be quoted FOB LSU/Destination and inclusive of any and all applicable shipping and handling charges unless otherwise specified in the solicitation. Any invoiced delivery charges not quoted and itemized on the LSU purchase order are subject to rejection and non-payment. Payment is to be made within 30 days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. By signing this solicitation, the supplier certifies compliance with all general instructions to suppliers, terms, conditions and specifications; and further certifies that this bid is made without collusion or fraud. 				
SUPPLIER NAME			MAILING ADDRESS	
AUTHORIZED SIGNATURE			CITY, STATE ZIP	
PRINTED NAME			PHONE #	
TITLE			FAX #	
E-MAIL			FEDERAL TAX ID #	

STANDARD TERMS & CONDITIONS	INVITATION TO BID	Page 2
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<p>These standard terms and conditions shall apply to all LSU solicitations, unless otherwise specifically amended and provided for in the special terms and conditions, specifications, or other solicitation documents. In the event of conflict between the General Instructions to Suppliers or Standard Terms & Conditions and the Special Terms & Conditions, the Special Terms & Conditions shall govern.</p> <p>Bids submitted are subject to provisions of the laws of the State of Louisiana, including but not limited to: the University Procurement Code (LAC 34:XIII. Chapters 3-25) and the terms, conditions, and specifications stated in this solicitation.</p>		
<p>1. Supplier Enrollment Suppliers providing a bid/quote in response to a LSU solicitation must be setup in the University's new procurement system (Workday) for bid tabbing and award of a purchase order. Suppliers should complete the online supplier registration form prior to submitting a bid response and/or the bid due date and time to ensure bid tabbing can be done timely after the bid deadline. This website is used in place of a paper form and must be accompanied with an IRS Request for Taxpayer Identification Number and Certification form (W-9 or W-8 if foreign) to collect the required business and tax information that support the University's reporting and compliance requirements. To inquire if you or your company is setup or for questions regarding setup, email suppliers@lsu.edu. The supplier enrollment form can be located at: http://www.lsu.edu/administration/ofa/procurement/supplier_registration.php</p> <p>2. Bid Delivery and Receipt Bids must be received and time-stamped at the "Return Bid To" address no later than the due date and time specified herein. To assure consideration, your bid must be submitted in a sealed envelope or package and should be clearly and prominently marked with the solicitation number and bid due date, or may be submitted in the special bid return envelope if one was furnished for that purpose. Supplier are advised that the U.S. Postal Service does not make deliveries to our physical location. USPS mail is delivered to the University's mail center and is redelivered using internal resources. Suppliers may deliver bids by hand or by a courier service to the Procurement Office. The University shall not be responsible for any delays caused by the supplier's chosen means of bid delivery. Supplier is solely responsible for the timely delivery of its bid, and failure to meet the bid due date and time shall result in rejection of the bid. Late bids cannot be accepted per LAC 34:XIII.515.B.</p> <p>3. Bid Forms Bids are to be submitted on the LSU solicitation forms provided, and must be signed by an authorized agent of the supplier in accordance with LAC 34:XIII.517. Bids submitted on other forms or in other price formats may be considered informal and may be rejected in part or in its entirety. Bids submitted in pencil and/or bids containing no original signature indicating the supplier's intent to be bound will not be accepted.</p> <p>4. Interpretation of Solicitation/Supplier Inquiries If supplier is in doubt as to the meaning of any part or requirement of this solicitation, supplier may submit a written request for interpretation to the Buyer-of-Record at the address and/or fax number shown above. Written inquiries must be received in the Procurement Office no later than 4:30 pm CST four (4) business days prior to the opening of bids, and shall be clearly crossreferenced to the relevant solicitation/specification in question. No decisions or actions shall be executed by any supplier as a result of oral discussions with any LSU employee or consultant. Any interpretation of the documents will be made by formal addendum only, issued by the Procurement Office, and mailed or delivered to all suppliers known to have received the solicitation. LSU shall not be responsible for any other interpretations or assumptions made by supplier.</p> <p>5. Bid Addenda Bid Addendum is to be signed and returned with your bid. If you have already submitted your bid, and this Addendum creates a need to revise/clarify your original response in any way, you are required to submit such in writing. To be considered, your addendum response must be submitted to and received by LSU Procurement at the "Return Bid To" address stated above. Submittals for price alterations and addenda to bids must be clearly marked with the solicitation number and the bid due date/time and returned via fax, email, courier service, hand delivery, or USPS mail. Bid revisions received after bid opening cannot be considered, whereupon the supplier must either honor or withdraw its original bid.</p> <p>6. Bid Opening Suppliers may attend the public bid opening of sealed bids. No information or opinions concerning the ultimate contract award will be given at bid opening or during the evaluation process. Written bid tabulations will not be furnished.</p> <p>7. Special Accommodations Any "qualified individual with a disability" as defined by the Americans with Disabilities Act, who has submitted a bid and desires to attend the public bid opening, must notify the Procurement Office in writing not later than seven days prior to the bid opening date of their need for special accommodations. If the request cannot be reasonably provided, the individual will be informed prior to the bid opening.</p>		

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<p>8. Standards of Quality Any product or service bid shall conform to all applicable federal, state and local laws and regulations, and the specifications contained in the solicitation. Any manufacturer's name, trade name, brand name, or catalog number used in the specification is for the purpose of describing the standard of quality, performance, and characteristics desired; and is not intended to limit or restrict competition. Supplier must specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact product specified in the solicitation.</p> <p>9. New Products/Warranty/Patents All products bid for purchase must be new, never previously used, of the manufacturer's current model and/or packaging, and of best quality as measured by acceptable trade standards. No remanufactured, demonstrator, used or irregular products will be considered for purchase unless otherwise specified. The manufacturer's standard published warranty and provisions shall apply, unless more stringent warranties are otherwise required by LSU and specified in the solicitation. In such cases, the supplier and/or manufacturer shall honor the specified warranty requirements, and bid prices shall include any premium costs of such coverage. Supplier guarantees that the products proposed and furnished will not infringe upon any valid patent or trademark; and shall, at its own expense, defend any and all actions or suits charging such infringement, and shall save LSU harmless.</p> <p>10. Descriptive Information Suppliers proposing an equivalent brand or model are to submit with the bid descriptive information (such as literature, technical data, illustrations, etc) sufficient for LSU to evaluate quality, suitability, and compliance with the specifications. Failure to submit descriptive information may cause bid to be rejected. Any changes made by supplier to a manufacturer's published specifications shall be verifiable by the manufacturer. If items bid do not fully comply with specifications, supplier must state in what respect items deviate. Supplier's failure to note exceptions in its bid will not relieve the supplier from supplying the actual products requested.</p> <p>11. Bids/Prices/F.O.B. Point</p> <ul style="list-style-type: none"> • The bid price for each item is to be quoted on a "net" basis and F.O.B. LSU Destination, i.e. title passing upon receipt and inclusive of all delivery charges, any item discounts, etc. • Bids other than F.O.B. LSU Destination may be rejected. • Bids indicating estimated freight charges may be rejected. • Bids requiring deposits, payment in advance, or C.O.D. terms may be rejected. • Suppliers who do not quote "net" item prices and who separately quote an overall "lump sum" freight cost or discount for all items shall be considered as submitting an "all-or-none" bid for evaluation and award purposes; and risk rejection if award is made on an item or grouped basis. • Prices shall be firm for acceptance for a minimum of 30 days, unless otherwise specified. Bids conditioned with shorter acceptance periods may be rejected. • Prices are to be quoted in the unit/package specified (e.g. each, 12/box, etc), or may be rejected. • In the event of extension errors, the unit price bid shall prevail. <p>12. Taxes Supplier is responsible for including all applicable taxes in the bid price. LSU is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly assessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc.</p> <p>13. Terms and Conditions This solicitation contains all terms and conditions with respect to the purchase of the goods and/or services specified herein. Submittal of any contrary terms and conditions may cause your bid to be rejected. By signing and submitting a bid, supplier agrees that contrary terms and conditions which may be included in its bid are nullified.</p> <p>14. Supplier Forms/LSU Signature Authority The terms and conditions of the LSU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any supplier contract, form, etc. The University's chief procurement officer, or authorized designee, is delegated sole authority to execute/sign any supplier contracts, forms, etc, on behalf of LSU. Departments are expressly prohibited from signing any supplier forms. Any such supplier contracts/forms bearing unauthorized signatures shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom. Suppliers who present any such forms to department users for signature without regard to this strict LSU policy may face contract cancellation, suspension, and/or debarment.</p> <p>15. Awards Award will be made to the lowest responsible and responsive supplier. LSU reserves the right: (1) to award items separately, grouped, or on an all-or-none basis, as deemed in its best interest; (2) to reject any or all bids and/or items; and (3) to waive any informalities. All solicitation specifications, terms and conditions shall be made part of any subsequent award as if fully reproduced and included therein, unless specifically amended in the formal contract.</p>		

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<p>16. Acceptance of Bid Only the issuance of an official LSU purchase order/contract, a Notification of Award letter, or a Notification of Intent to Award letter shall constitute the University's acceptance of a bid. LSU shall not be responsible in any way to a supplier for goods delivered or services rendered without an official purchase order/contract or award letter. Bid tabulations may be requested after acceptance of bid.</p> <p>17. Applicable Law All contracts shall be construed in accordance with and governed by the laws of the State of Louisiana.</p> <p>18. Awarded Products/Unauthorized Substitutions Only those awarded brands and numbers stated in the LSU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Procurement Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at supplier's expense, and non-payment.</p> <p>19. Testing/Rejected Goods Supplier warrants that the products furnished will be in full conformity with the specification, drawing or sample, and agrees that this warranty shall survive delivery, acceptance, and use. Any defect in any product may cause its rejection. LSU reserves the right to test products for conformance to specifications both prior to and after any award. Supplier shall bear the cost of testing if product is found to be non-compliant. All rejected goods will be held at supplier's risk and expense, and subject to supplier's prompt disposition. Unless otherwise arranged, rejected goods will be returned to the supplier freight collect.</p> <p>20. Delivery Supplier is responsible for making timely delivery in accordance with its quoted delivery terms. Supplier shall promptly notify the LSU Department and/or Procurement Office of any unforeseen delays beyond its control. In such cases, LSU reserves the right to cancel the order and to make alternative arrangements to meet its needs.</p> <p>21. Default of Supplier Failure to deliver within the time specified in the bid/award will constitute a default and may be cause for contract cancellation. Where the University has determined the supplier to be in default, LSU reserves the right to purchase any or all goods or services covered by the contract on the open market and to surcharge the supplier with costs in excess of the contract price. Until such assessed surcharges have been paid, no subsequent bids from the defaulting supplier will be considered for award.</p> <p>22. Supplier Invoices Invoices shall reference the LSU purchase order number, supplier's packing list/delivery ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order, and submitted on the supplier's own invoice form. Invoices submitted by the supplier's third party supplier are not acceptable.</p> <p>23. Delinquent Payment Penalties Delinquent payment penalties are mandated and governed by Louisiana R.S. 39:1695. Supplier penalties to the contrary shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.</p> <p>24. Assignment of Contract/Contract Proceeds Supplier shall not assign, sublet or transfer its contractual responsibilities, or payment proceeds thereof, to another party without the prior written consent and approval of the Procurement Office. Unauthorized assignments of contract or assignments of contract proceeds shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.</p> <p>25. Right to Piggyback Where this solicitation may name one department as the primary contract user, LSU reserves the right to authorize additional departments/campuses to use the contract as their needs arise; and Vendor shall honor all such purchase orders.</p> <p>26. Contract Cancellation LSU has the right to cancel any contract for cause, in accordance with procurement rules and regulations, including but not limited to: (1) failure to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentation by the supplier; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the University; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; (6) any other breach of contract. LSU has the right to cancel any contract for convenience at any time by giving thirty (30) days written notice to the supplier. In such cases, the supplier shall be entitled to payment for compliant deliverables in progress.</p> <p>27. Prohibited Contractual Arrangements Per Louisiana R.S. 42:1113.A, no public servant, or member of such a public servant's immediate family, or legal entity in which he has a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions, and provisions.</p>		

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<p>28. Equal Employment Opportunity Compliance By submitting and signing this bid, supplier agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972; federal Executive Order 11246; federal Rehabilitation Act of 1973, as amended; the Vietnam Era Veteran's Readjustment Assistance Act of 1974; Title IX of the Education Amendments of 1972; the Age Act of 1975; the Americans with Disabilities Act of 1990. Supplier agrees not to discriminate in its employment practices, and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, age, national origin, veteran status, political affiliation, handicap, disability, or other non-merit factor. Any act of discrimination committed by supplier, or failure to comply with these statutory obligations when applicable, shall be grounds for termination of any contract entered into as a result of this solicitation.</p> <p>29. Mutual Indemnification Each party hereto agrees to indemnify, defend, and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities, and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence.</p> <p>30. Certification of No Suspension or Debarment By signing and submitting this bid, supplier certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.epls.gov.</p> <p>31. Right to Audit The University shall be entitled to audit the books and records of a supplier or any subcontractor under any negotiated contract or subcontract to the extent that such books and records relate to the performance of such contract or subcontract. Such books and records shall be maintained by the supplier for a period of five (5) years from the date of final payment under the prime contract and by the subcontractor for a period of five (5) years from the date of final payment under the subcontract, pursuant to LAC 34:XIII.1603.</p>			

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Delivery of the trailer must be made no later than March 15, 2017.

Sealed Bid Delivery Instructions and Advisory: To assure consideration, your bid must be submitted in a sealed envelope or package and should be clearly and prominently marked with the solicitation number and bid due date, or may be submitted using the special bid return label if one was furnished for that purpose. Bidders are advised that the U.S. Postal Service does not make deliveries to our physical location. USPS mail is delivered to the University's mail center and is redelivered using internal resources. Bidders may deliver bids by hand or by a courier service to our physical location at the "Return Bid To" address specified. The University shall not be responsible for any delays caused by the Bidder's chosen means of bid delivery. Bidder is solely responsible for the timely delivery of its bid, and failure to meet the bid due date and time shall result in rejection of the bid. Your attention is also directed to Standard Terms & Conditions No. 1 - Bid Delivery and Receipt.

Bid prices are to be quoted FOB LSU/DESTINATION and inclusive of any and all applicable shipping and handling charges.

A preference, if applicable, may be allowed for products produced, manufactured, assembled, grown or harvested in Louisiana. Do you claim this preference? Yes _____ No _____. Note: Preferences shall not apply to service contracts. Is your Louisiana business workforce composed of a minimum of fifty percent Louisiana residents? Yes _____ No _____. Specify Item Number and location within Louisiana where the product is/was produced, manufactured, assembled, grown or harvested:

_____ Note: This preference is not applicable for services.

Use of University Name and Indicia (PS-93): LSU is the owner of all rights, titles and interests in and to certain designations comprising designs, trade names, trademarks and service marks (hereafter called "Licensed Marks"), including without limitation, the names "Louisiana State University" and "LSU Tigers," the wordmark "LSU," logotypes, and seals incorporating one or more of the foregoing, and certain logographics and/or symbols which have come to be associated with Louisiana State University. The Contractor is granted the right by LSU to utilize its "Licensed Marks" on a royalty free basis for the sole purpose of executing the deliverables under this contract. Contractor acknowledges this single use provision, and further acknowledges that any other use of such licensed marks of LSU shall be considered as an infringement of its federal and state registered trademarks.

PRICE SHEET		INVITATION TO BID		Page 7	
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ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT
UNLESS SPECIFIED ELSEWHERE, SHIP ALL ITEMS TO: LSU 6868 Nicholson Drive Baton Rouge, LA 70820					
1	Firefighter Skills Trailer per attached specifications Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1	Each	\$ _____	\$ _____

**Unit Specifications for a Firefighter Skills Training Trailer
for the
Louisiana State University
Carrol L. Herring Fire & Emergency Training Institute**

Project Description/Overview: It is the intent of LSU Carrol L. Herring Fire & Emergency Training Institute (hereafter referred to as "FETI") to purchase a trailer and attached prop that can be towed behind a pickup truck (total tow weight 28,000 pounds or less) for the purpose of training firefighters a variety of skills throughout the state. The prop will not utilize actual fire or smoke (see section 4 for specific functions). Trailer with prop must meet all applicable DOT and NFPA standards and legal requirements. The prop shall be purpose-built open framework.

1. General Information

- a. FETI is seeking sealed bids for an engineered, firefighter skills prop that meets the needs for the skills listed in section 4, mounted on a gooseneck transport trailer.
- b. The system must be designed and built utilizing the most current NFPA standards inclusive of 1402 and 1403, as published for this type of equipment, inclusive of DOT and Louisiana state laws.
- c. Due to the grant period, delivery must be no later than March 15, 2017.

2. Instructions

- a. Each bidder shall carefully read the included specifications and examine all documents for the equipment requested prior to submitting a bid. All bids shall be in compliance with current codes and standards for this type of equipment. Current codes shall supersede errors in specification.
- b. Included are photos of a wooden model of the prop, this is available for inspection at LSU-FETI by appointment with Dave Casey, at 6868 Nicholson Dr., Baton Rouge, LA. 70820. Dave can be reached at davecasey@lsu.edu or 225 334-6157. Questions/Clarifications, if any, required as a result of inspections or vendor review of specifications shall be submitted in writing to LSU Procurement, attention: Jene' Ledet (jeneledet@lsu.edu), for formal written response in the form of an addendum to all bidders participating in this solicitation.
- c. Manufacturer is to provide a one (1) year warranty on all parts, equipment, welding, inclusive of trailer.
- d. Price is delivered FOB to the FETI campus in Baton Rouge.
- e. Any vehicles or trailers for use on public roads needs to have the following included upon delivery:
 - (1) Bill of Sale, showing the cost to LSU for the item and the VIN or serial number of the item.

- (2) Certificate of Origin or Manufacturer's Certificate, showing who built the item and its VIN or serial number. Must be an original document.
- (3) For vehicles or trailers from outside the U.S., a Customs release or document showing that the vehicle or item has entered the U.S. legally.

3. Trailer Specifications

- a. The "trailer" is to be all steel construction, new "gooseneck", the vendor is to specify two or three axle chassis. Trailer shall be approximately 30' (feet) excluding the raised portion over the gooseneck.
- b. The trailer with prop shall be DOT and FHWA certified with all required DOT lights and markings. Lights shall be LED. Rear trailer lighting to include additional bright white ground lighting around the rear and rear sides when the truck is placed in "reverse".
- c. The trailer with prop shall be balanced and configured to be towed behind a pickup truck (tow weight 28,000 pounds or less).
- d. VIN plate must allow for the total weight (GVWR rating) of the prop plus 5000 (five thousand) pounds more than the accumulated weight of the prop and all associated components. If the prop is permanently mounted to the trailer (such as welded) the original OEM VIN plate must allow for the total weight (GVWR rating) of the prop plus 5000 pounds more than the accumulated weight of the prop and all associated components. An additional plate by the modifier is required that specifies any modifications. Labeling requirements must comply with 49 CFR 567.4 in a manner that does not obscure any previously applied labels per 49 CFR 567.7.
- e. Gooseneck hitch shall be for a 2 5/16" ball.
- f. Trailer brakes shall be electric over hydraulic.
- g. The trailer shall have steel cross-members only, wood planks, 2" X 8" pressure treated grade 1 for trailer deck.
- h. Trailer to be equipped with four electric over hydraulic stabilizers to allow it to stand alone and so it can be leveled. Forward set can also serve as the "landing gear" (forward mechanical lift mechanism). Note: the hydraulic system can for stabilizers can be the same system used for the roof prop in section 4 l.
- i. Two (2) spare tires and rims to be included and mounted in a manner they do not obstruct training evolutions.
- j. A locking compartment is to be mounted on the trailer with the following vendor supplied equipment:
 - (1) One (1) hydraulic floor jack to replace tires that is appropriate to the trailer weight and tire size.
 - (2) One (1) four way lug wrench appropriate for the trailer's wheels
 - (3) One (1) DOT specification highway warning triangle kit (three triangles).

- k. A locking compartment shall be provided over the “gooseneck”, full prop width by the full length and height of the elevated section (see photo 1). One compartment door, horizontally hinged (hinge at top) on each side.
 - l. Back up and side view cameras to be monitored from truck cab for safe backing, etc., shall be provided.
4. Prop specifications
- a. Refer to section 5 for the overall model photos and for additional photos or illustrations of specific components.
 - b. The prop shall be affixed to the trailer in a DOT compliant manner. It can be permanently affixed or allow for detachment.
 - c. Construction methods, materials (unless otherwise specified), material thickness, and finish shall allow for exterior storage and utilization. The prop is intended for “heavy duty” firefighter training that will include the striking of tools against specific purpose built components, laddering to the top and sides, and multiple firefighters in full protective clothing and self-contained breathing apparatus (approximately 400 pounds each) operating in different components simultaneously.
 - d. Similar units are in service with the Oklahoma State University Fire Service Training. Although configured differently, photos of their unit and another are included for explanation.
 - e. The prop is a purpose-built open framework to allow light and visibility of firefighters by their instructors and other firefighters during use. (See figure 5-1)
 - f. The prop shall have aluminum flip-up stairs (flip up for transport) that are easily deployed for safe access from the ground into the prop. The steps and railings must conform to OSHA standards and are full width of the rear. Railings for both sides and one centrally located. Anchor mechanisms shall be provided to secure the stairs up and out of the way for over the road transport. Stairs shall have stabilizers for uneven ground.
 - g. Exterior/ interior surfaces are to be primed and painted Exterior Paint-High Build Acrylic Enamel like CMP or HEMPLE- gray (Paint code to be determined by FETI).
 - h. Three 60” X 60” LSU-FETI logos are to be located on the two long sides (road side/curbside) of the trailer location, and one unmounted. Signs will be on metal plates painted to match the container. Three 6” X 36” matching signs for our web address on a white background (lsu.edu.feti). Artwork for both will be provided by FETI after award.
 - i. The entire roof and floor decks shall be reinforced for the weight of several firefighters with PPE and SCBA, at least 3200 pounds each level.

- j. The exterior wall frames and horizontal members will support the weight of fire service ladders placed against the horizontal members (approximately 150 pounds each), with two firefighters (approximately 400 pounds each).
- k. Upper deck areas shall have safety rails that can be removed or are hinged to allow being folded flat. NOTE: the included photos have railing placement and movement.

- l. A pitched roof segment shall be located towards the trailer rear of the upper deck. The pitched roof section is to lay flat on top of the upper deck for transport, and is to be hinged on the street side. The curb (right) side is to lift hydraulically to a 4/12 pitch, and to angle lower. The pitched roof is to be a steel frame with steel cross members. The 4 foot by 8 foot area centered in the roof segment shall accommodate a sheet of plywood or OSB that is to be set in a frame that can be used for roof cutting drills.



Figure 4-l – pitched roof segment

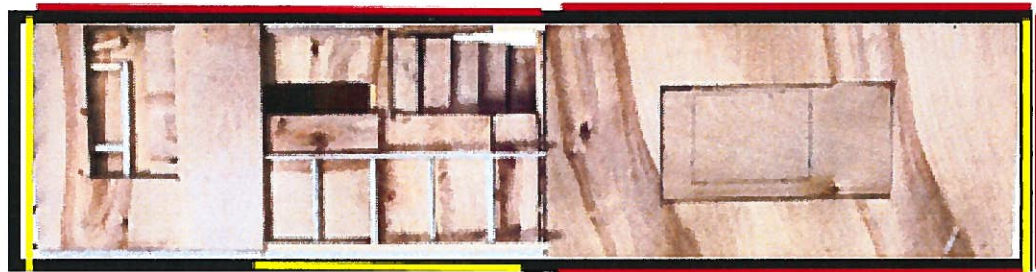
Three easily replaced 2" X 6" wooden beams shall be located 24" intervals underneath the 4 foot by 8 foot area. The overall approximate dimensions are to be 16 feet by 8 feet. A safety railing shall be located along the four sides of the pitched roof prop. The railing sides need to elevate with the roof pitch. The railings need to fold down for transport. Two large gaps in the railings, approximately four feet each, are to be located on the hinged side, on either side of the "cut out" section to accommodate ladders raised against the edge of the prop.

- m. Upper deck shall have two eight foot by eight foot "flip up" wall segments. A wall segment with window opening shall be located on the street side of the vehicle forward (see figures 5.1 – 5.4) with a 3 foot wide by 5 foot high window opening. Said window opening bottom shall be approximately 2 foot high from the bottom of the wall segment. The window opening is to have no glass. A 5000 pound "shock" rated, braced anchor point (per NFPA 1893) over the window opening firefighter "bail out" practice is



to be installed by the vendor at a mutually agreed to location. The door segment will also be 8 foot by 8 foot with a standard, metal exterior door, aligned with the stairs to be at the top of the stair case with a small landing. (see figures 5.1 – 5.3).

- n. Safety rails that flip up for use, and down for transport shall protect the upper deck areas. Intent is to have some that fold inward to support the wall sections when they are folded down. See figure 5-4 and below diagram. Lines marked in yellow fold inward. Lines marked by red would fold outward, roughly parallel to the outside of the trailer.
 - (1) a railing section adjacent to fold down wall on the street (left) side can be integral to the wall or a separate segment and fold inward with it.
 - (2) a railing section at street side of pitched roof shall to have a railing in place when the pitched roof is stowed flat or in a pitched position. Shall fold inward onto the pitched roof or outward.
 - (3) there must be a railing along the rear most edge, and one that remains along the upper deck edge.



Gooseneck end



(1) ↑

(2) ↑

(3) ↑

- o. A stairway shall extend from the lower deck to the upper deck, OSHA standard for stairs, non-slip tread plate, steel support and mainframe. Area underneath shall be unenclosed. Because tread plate will be touched by knees and hands, the material used for treads must not have upward perforations such as rasp holes or serrated grating. Downward perforated raised button surfaces such as Traction Tread™, smooth top metal bar grating, [Amstep™ Series 700](#), [American Safety Tread Company's Aluminum Extruded/Abrasive Stair Nosing](#) or equivalent product.
- p. Two 2½" Standpipe Stairwell Valve Connections shall be part of the standpipe system (see next item). Standpipe will need to allow an upper segment to be retracted or other method for road transport. A section of fire hose may be used to connect to sections of pipe and provide a method for the upper pipe to "fold down" transport. The upper section of the standpipe will need to have a method to secure it upright when in use, and also when it is down or retracted for transport. One connection near base of stairs, other near top of stairs, exact

location for FDC, hose connections, etc., shall be jointly agreed upon by vendor and FETI.

- q. A working fire department connection (FDC) shall be located where it is not an obstruction to the transportation of the trailer (most likely under the gooseneck on the lower forward bulkhead) with a working sprinkler/standpipe system with basic controls, valves, and gauges. The FDC shall have two 2½" female NST swivel couplings. Below the trailer a single 2½" female NST swivel coupling to connect a 2½" fire hose to will be provided to supply water to the system. The connection underneath shall serve as "the building's supply". The sprinkler system shall be in accessible area of first floor, and shall include: automatic drip valve, retard chamber, alarm line strainer, alarm pressure switch, system side water gauge, check valve, water motor alarm, alarm check valve, main drain valve, and alarm test shut off valve. A threaded valve shall be included to allow another pipe to be added exterior to the prop area. Exact location for FDC, hose connections, etc. shall be jointly agreed upon by vendor and FETI.



- r. A King Ceiling Prop, steel frame that accepts a sheet 4' X 8" half inch thick piece of dry wall sandwiched between a steel frame with approximately 16" spacing of the rails shall be located underneath the upper deck to simulate a ceiling. The exact location shall be jointly agreed upon by vendor and FETI.

<http://kingceilingprop.com>,
(262) 989-0453,
Chris@kingceilingprop.com

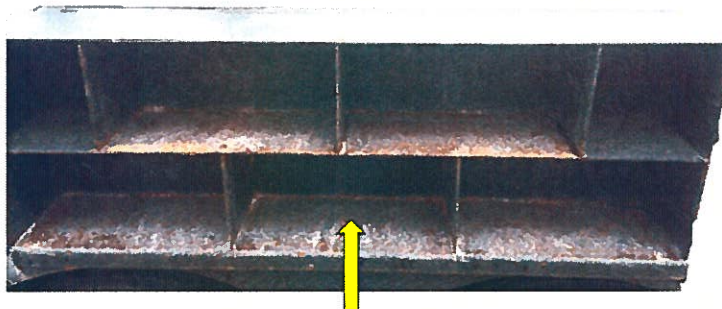


- s. An unmounted forcible entry door and forcible entry window (in addition to mounted units) shall be included that can be removed from the trailer and used adjacent to the trailer to provide more "work stations" spread out further. Model ECRS-FEDOOR and ECRS-ALL-PROP from East Coast Rescue Solutions.
<http://www.eastcoastrescuesolutions.com/> (917) 886-2579 chris.ecrs@gmail.com
- t. A mounted forcible entry door on the first level as shown in the model, "pry" type. See figure 5-1 for location of this door, and plans and photos in section 7a.

NOTE: above style door like the ECFR can be used in lieu of fabricating one. This door shall be mounted to the trailer.

- u. Forcible entry window props shall be located on the street side of the vehicle (side opposite of the internal stairs). Props to be located for exterior application with firefighter standing on the ground. See plans and photos in section 7b.
- v. A standard residential gas meter/valve assembly shall be located at a height accessible from ground, exact location shall be jointly agreed upon by vendor and FETI. Unit is a dummy for training and does not control any product.
- w. A standard electric shut-off (exterior) box accessible from ground height, exact location shall be jointly agreed upon by vendor and FETI. Unit is a dummy for training and does not control any electric service

- x. Vendor shall provide a free-standing cement block wall breaching prop. Prop will be carried on trailer (or tow vehicle) and set up on the ground. To include at least five (5) "receptacles",



Note: each bay sized to fit one standard cement block

each able to hold one cement block. A framework will hold the prop off the ground so the lower tier is at least two feet (2') from the ground with bracing so it is not knocked over while firefighters use sledge hammers to break the blocks to simulate breaching a wall. Minor assembly for use is acceptable if it makes the prop easier to move and/or store.

- y. A free-standing King wall prop (<http://kingceilingprop.com>) steel frame that accepts a sheet 4' X 8" 1/2" plywood or OSB sandwiched between a steel frame with approximately 16" spacing of the rails. The wall cut prop will be carried on trailer (or tow vehicle) and set up on the ground. Framework and bracing will hold the prop upright so it is not knocked over while firefighters use saws and hand tools to cut through the materials. Minor assembly for use is acceptable if it makes the prop easier to move and/or store.



5. Model of proposed unit.

NOTE: model is for illustrative purposes only, not to scale, not all details are shown.

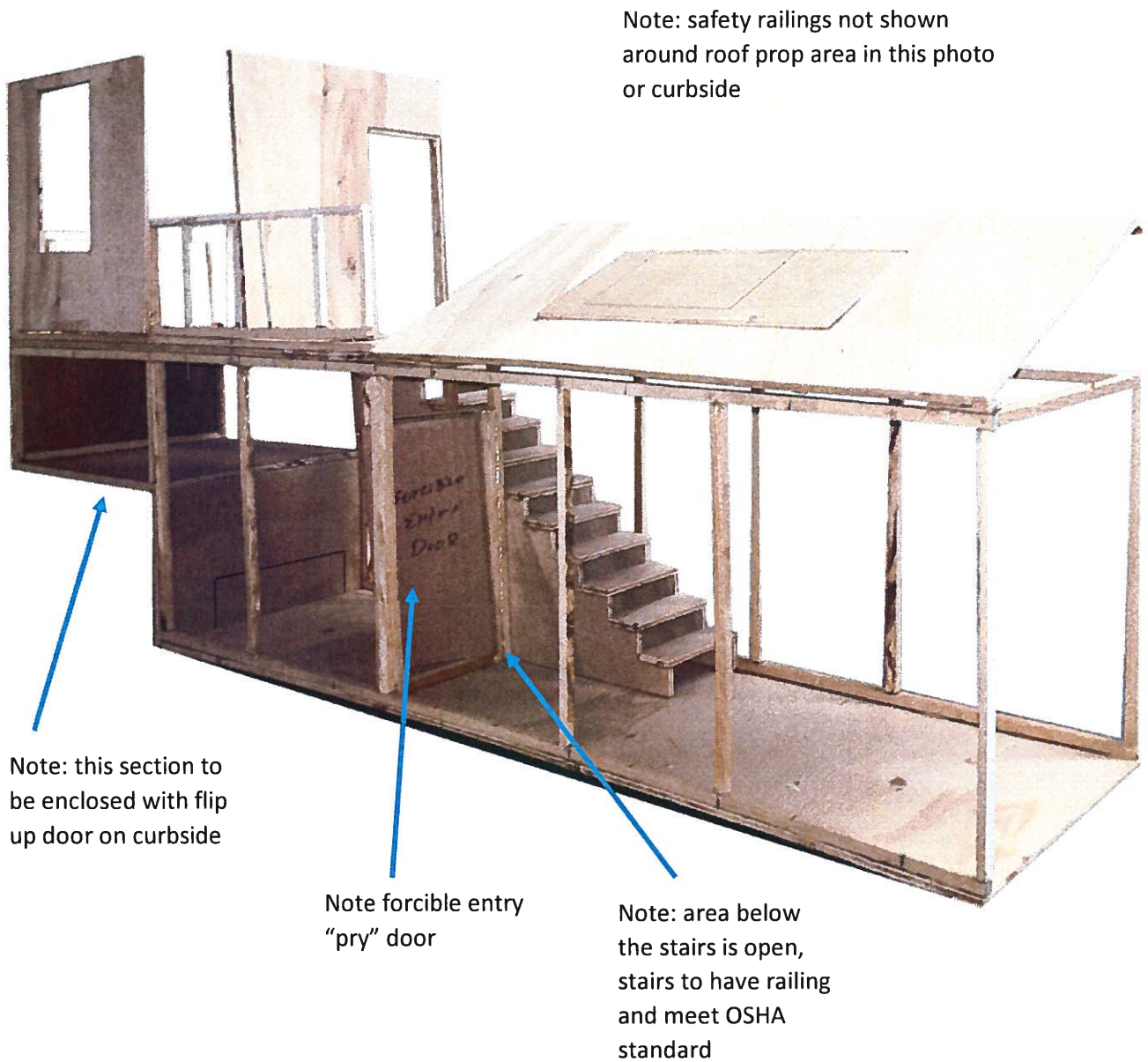


Figure 5-1

Upper wall sections and pitched roof are hinged to lay flat and lock for transport. See "top" view that shows out sections on gooseneck can "stack". When upright they must lock and brace for use per specifications. Railings along all upper sides except for wall section. Railings along all upper sides except for wall section.

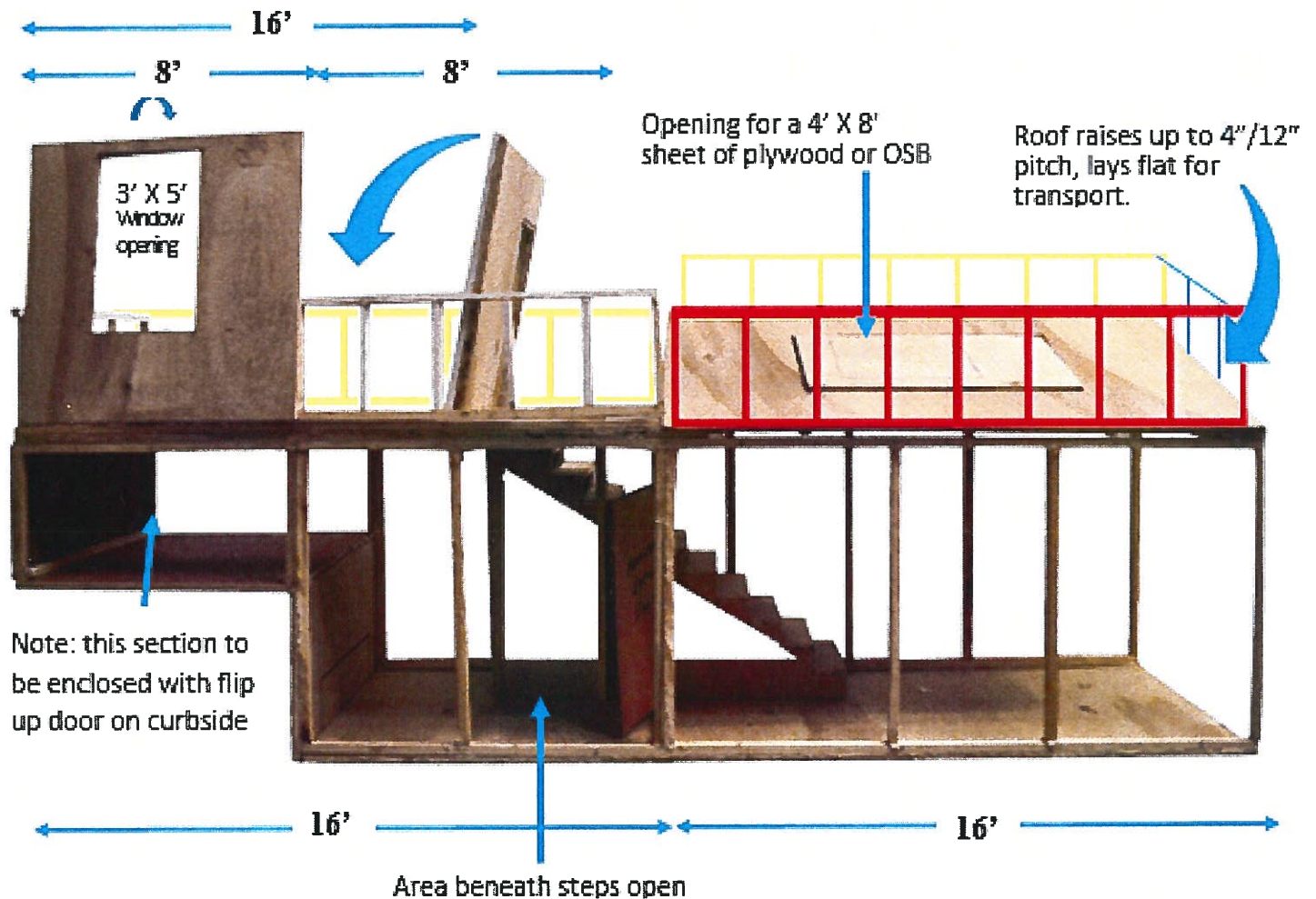


Figure 5-2

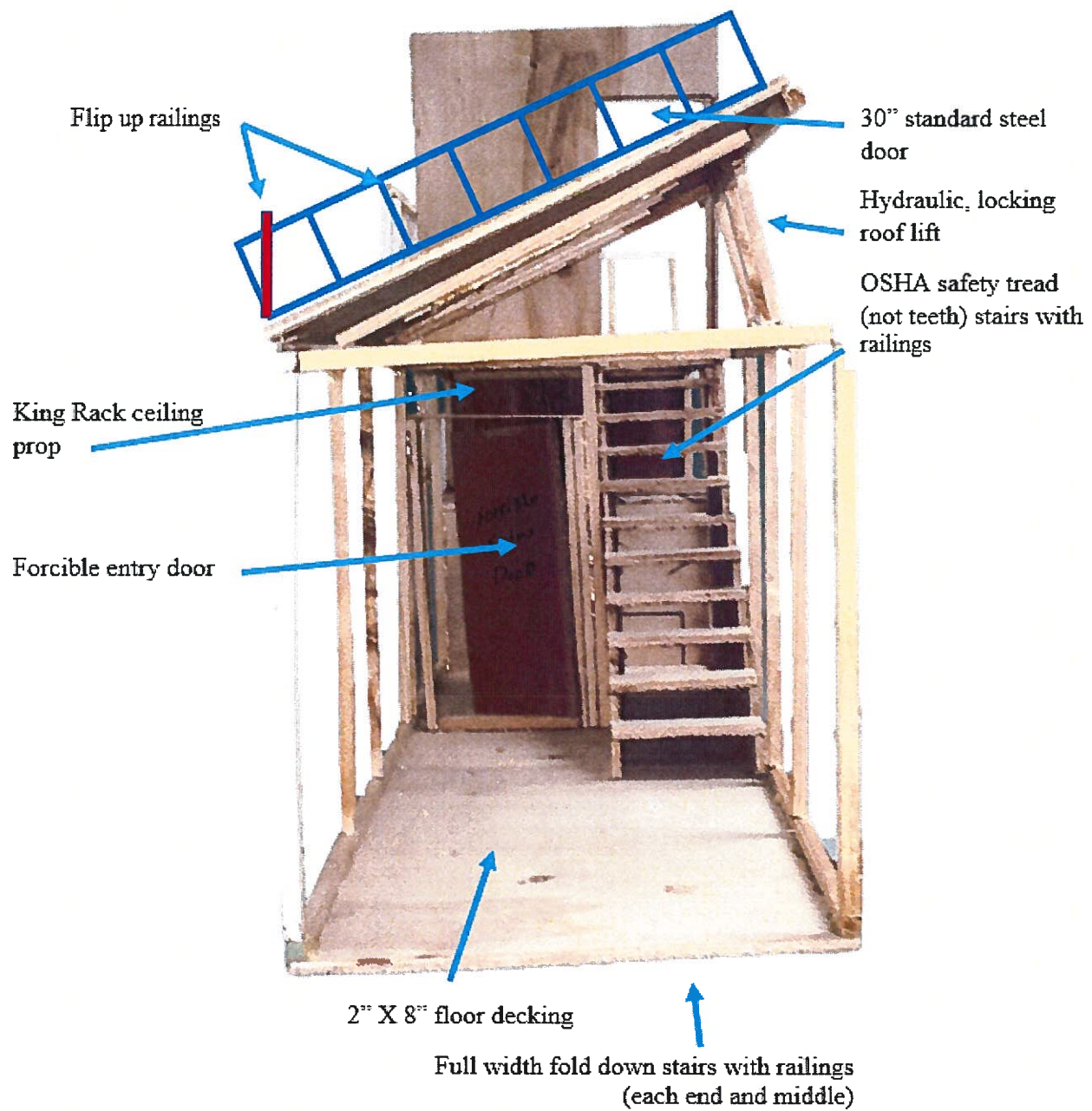


Figure 5-3

Fold down railings
(with street side
window panel)

Wall panels with door
and forward railing fold
down first. Wall unit with
window fold on top.

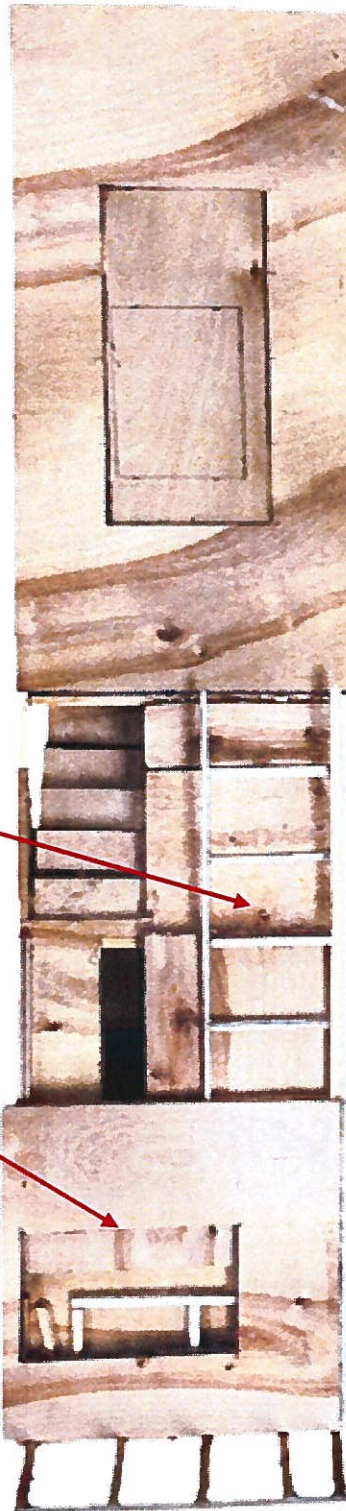


Figure 5-4

6. Similar units



Flash Fire Industries – Connecticut (Training provider – not the trailer manufacturer)



Oklahoma State University Fire Service Training's original unit (basis for this design)



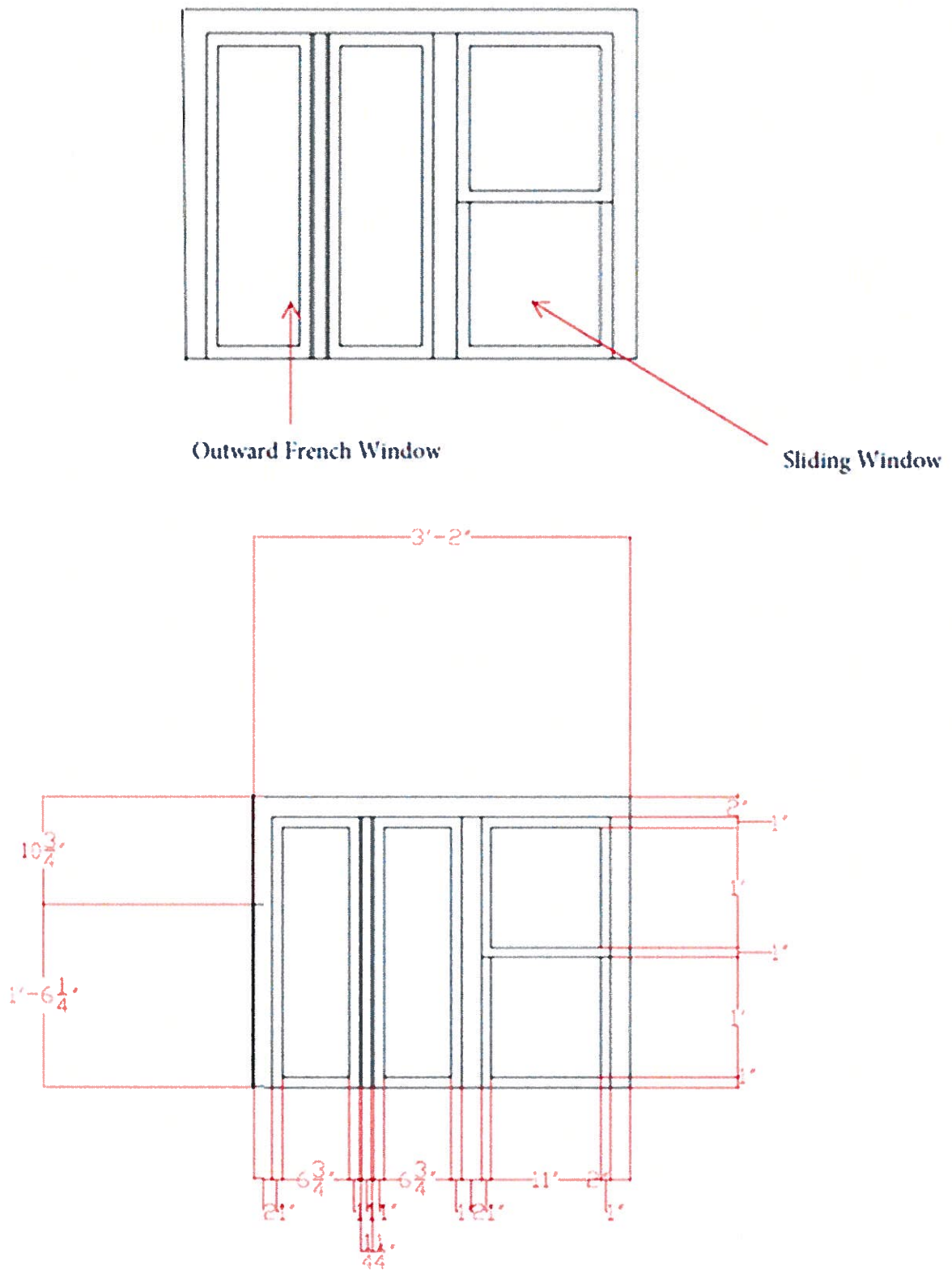
Oklahoma State University Fire Service Training's original unit (basis for this design, although there are significant differences)



7. Detail plans and photos

a. Windows (refers to section 4u)

- a. Windows (refers to section 4u)





Windows held shut with pins for travel.
Windows use a 3/8" dowel for forcible
entry simulation.
*Pipe collars should be able to fit a 3/8"
dowel snug

Windows made of 1" square steel tubing



1 1/4" X 1/2" Channel used for Sliding Window track



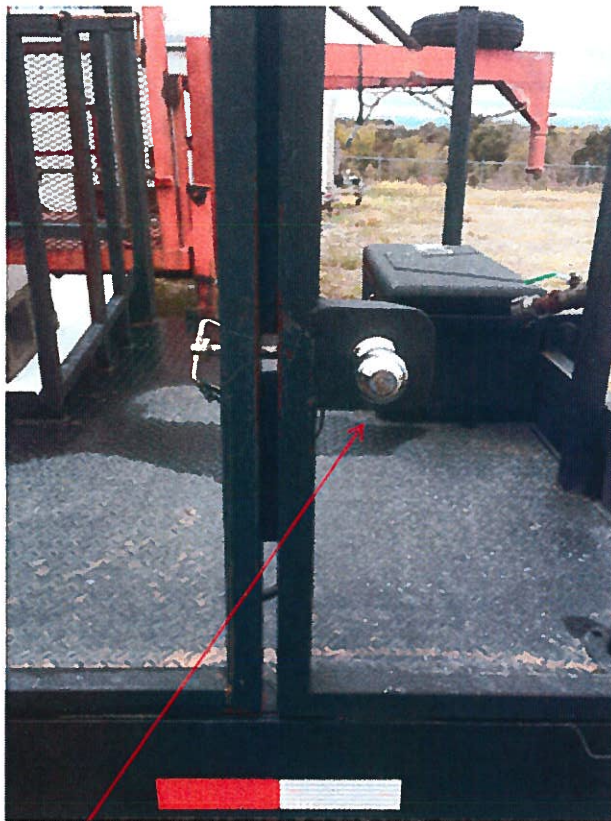
1 1/4" Flat Strap

Piano Hinge



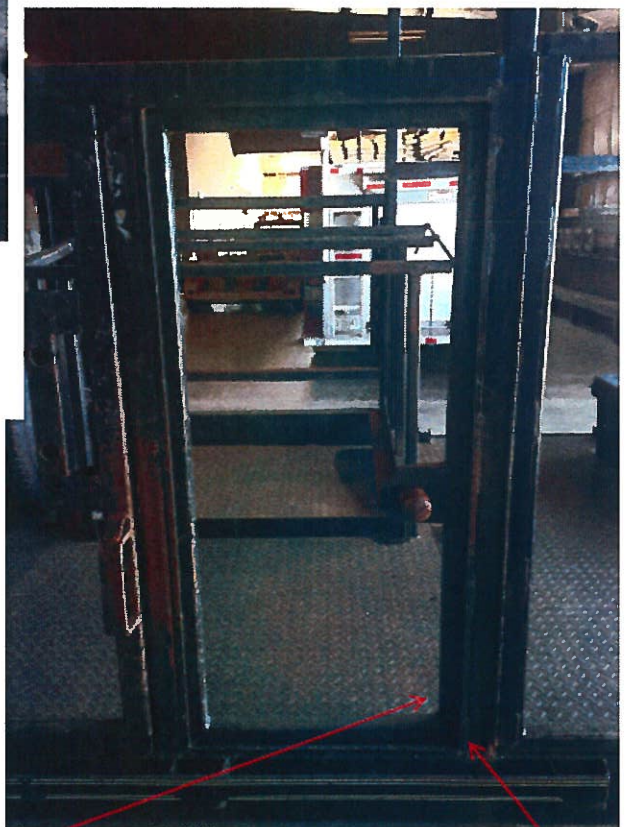
1 1/4" Flat strap welded to steel for prying window open

b. Pry door (attached to trailer)



NOTE: a commercially prepared forcible entry door prop is also acceptable. This door needs to be full height and width. Example shown is much smaller. Alternate framing dimensions and other revisions can be accepted with mutual agreement.

Doornobs made of 2" trailer hitch balls



Door Made of 1 1/2" Square Tubing

1/2" Square Stock